# PROCEDURE

## FOR THE FURNISHING AND INSTALLING OF MAIN SERVICE ENTRANCES

DEPARTMENT OF AGRICULTURE
U.S. RURAL ELECTRIFICATION ADMINISTRATION
WASHINGTON, D.C.

FEBRUARY 1941

UNITED STATES DEPARTMENT OF AGRICULTURE
RURAL ELECTRIFICATION ADMINISTRATION
WASHINGTON

March 15, 1941

MEMORANDUM TO ALL SUPERINTENDENTS, MANAGERS, PROJECT OFFICIALS AND ENGINEERS

Re: Service Entrance Installation Procedure.

To clarify procedures on the above subject, the following policy shall become effective at once:

I. ON ALL "A" ALLOTMENTS released since January 1, 1941, the service entrance shall be installed at no cost to the member and paid for by the cooperative out of construction funds.

A. All residence service entrance installations shall be installed with inside meter and service equipment enclosure complete. Until such time as new type meters are perfected for outdoor installations, socket type meters may be ordered for yard poles. Such metering equipment orders shall be approved by the Cooperatives' Operations Division.



II. ON SUPPLEMENTAL ALLOTMENTS. All cooperatives that have been established prior to January 1, 1941, shall have the option of installing the main service entrance out of construction funds, or continuing as they have in the past to require their members to pay for their own service entrances. Where a cooperative installs the service entrance it shall be left to the discretion of the board as to the type of installation made, i.e., inside meter installations or outside meters with inside circuit breakers.

WE RECOMMEND AND PREFER THAT THE COOPERATIVES ON ALL NEW SUPPLEMENTS INSTALL THE SERVICE ENTRANCE OUT OF CONSTRUCTION FUNDS, AND WHEN SUCH INSTALLATIONS ARE MADE THAT PREFERENCE BE SHOWN FOR THE INSIDE METER INSTALLATIONS.

III. Reference to complete instructions enclosed:

All orders, written or verbal, given prior to the issuance of this packet are hereby superseded by the information enclosed. Questions pertaining to information set forth in the packet shall be referred to the following divisions:

APPLICATIONS AND LOANS DIVISION:

Allotment procedures, wiring contracts, all house wiring specifications, service entrance specifications, inspection, and review and preliminary acceptance of service entrance contracts.

COOPERATIVES' OPERATIONS DIVISION:

Approval of types of meters and breaker equipment used. All meter orders are to be forwarded to this division.

DESIGN AND CONSTRUCTION DIVISION:

Final approval of all service entrance contracts before submitting to the Administrator for official release and payment of funds.

FINANCE DIVISION:

Questions pertaining to requisitions for funds and the checking of receipts and invoices relative to payments on service entrance installations.

C. O. Falkenwald
Applications and Loans Division

G. W. Thaxton
Design and Construction Division

C. A. Winder
Cooperatives' Operations Division

Jos. F. Marion
Finance Division

Enclosure

THE NECESSARY SUPPLY OF ALL FORMS, CONTRACT BOND, ETC., CONTAINED IN THIS PROCEDURE, IS TO BE FURNISHED BY THE COOPERATIVE.

## INSTRUCTIONS FOR HOUSE WIRING AND SERVICE ENTRANCE INSTALLATIONS

A. The Handling of All Wiring And Service Installation Matters Has Been Transferred To The Applications And Loans Division.

B. 1. Service Entrance Installations.

On all new allotments, service entrances shall be furnished and installed by the cooperative out of construction funds. See enclosed installation specifications for main service entrance installations included in Contract for the Furnishing and Installing of Main Service Entrances.

2. House Wiring Installations.

Follow same procedures as outlined in Manual of Wiring Procedures.

### PROCEDURES

(1) Ascertain total number and type of House Services to be installed.

(2) Ascertain the number and types of yard pole installations to be installed.

### SUGGESTED METHODS OF SECURING CONTRACTS

1. Hold meeting of Wiring Contractors who are interested in making service entrance installations and house wiring on your project.

(a) Outline complete service entrance installation requirements as to specifications and material.

(b) Using suggested Service Entrance Price Guide for each of the units set forth in contract form enclosed and, after a full discussion of these price breakdowns with the contractors, an agreement should be reached with them to install service entrances at the lowest possible price for each unit.

(c) After full explanation of materials and specifications of service entrance, get contractors to give you quotations on complete installation of each unit. These prices are based on the number of installations that each contractor can take care of in the prescribed time limit. Quotations from contractors may seem unnecessarily high, and it would be well to use the REA Suggested Service Entrance Price Guide to get lower prices that would be acceptable to your cooperative and to REA. After discussion and prices seem acceptable, in line with Suggested Price Guide, the cooperative should sign copy of enclosed contract with those contractors. These proposals should be forwarded to the Applications and Loans Division accompanied by a Resolution of Acceptance by the Board of Directors. Also, the proposals should be listed on the Analysis of Proposals form (copy attached) and this form forwarded with the Proposals and Resolution. The total number of installations that each contractor can take care of should be set forth in the contract according to units.

(d) Insurance and Bond.

You will note on page 5, paragraph 6, Insurance and page 7, paragraph 12, Bond, of the Service Entrance Contract that insurance and bond are required, depending upon the number of installations assigned to each contractor. The minimum number under this provision is to be determined by the Board of Directors of each cooperative. The Board may decide that all contractors shall provide insurance and a bond or any contractor making installations in excess of any predetermined number. The Board may require either the Insurance or the Bond, or both, in each case.

(e) At this same contractors' meeting, the superintendent should explain group house wiring plan and endeavor to get contractors to give unit price quotations for installation of house and farmstead wiring. Contractors agreeing to low cost service entrance would also be giving quotations on house wiring installations. Contractors should wire in service entrance and make house wiring installations at the same time on basis of separate low quotations.

2. Alternate Method.

Where large contractors are available in your territory and you wish to have them bid on the entire supplement, a closed bid form of procedure can be followed. If the bids received from the contractors exceed by more than 10% those suggested in the service entrance price guide enclosed, you should call for new bids from these contractors in line with these suggested prices, in order to get these prices more in line with acceptable prices to REA.

3. Before allowing contractors to start work on these prices approved by you at these meetings or bids, you should forward these contracts in triplicate from each contractor to the Applications and Loans Division, Washington, D. C., for approval.

4. After contract approval.

A. As soon as you receive notice of the approval of the contracts submitted, you should immediately send in your first requisition for approximately 90% of your total installations to be installed. This money will be forwarded from REA to be on hand for payment to your contractors upon completion of their job, after they have fulfilled all the requirements set forth below.

Please note in contract that you should hold back approximately 10% of total amount in payment to contractor until he has fulfilled all of the obligations of his contract and has supplied the cooperative with a complete list of all installations made by him, also an affidavit to the effect that all material costs, labor, liens, etc., have been paid and service entrances unencumbered.

B. After approval of contracts by this office you immediately start contractors to work on the basis of their acceptable prices approved.

C. After completion of each installation by the contractor, he should turn in to the cooperative office a complete bill of material for each installation. Enclosed is a copy of a suggested Installation Bill of material form on which has been included the Wiring Inspector's Certificate of Approval. A supply of these forms should be furnished by the cooperative to the contractors. The wiring inspector of the cooperative should take this bill of material with him when he makes his inspection of the service installation and should write his Certificate of Approval in the space provided for this purpose. He should check the bill of material against the actual installation to assure the cooperative that the installation was made according to the bill of material.

D. Before the contractor is given permission to install the service entrance, a copy of the Agreement of Ownership (Form LE-243) should be signed by each member and filed in the cooperative office. The form of Certificate (copy attached) is to be properly filled in and executed and sent attached to the Requisitions to REA. If, for any reason, a signed agreement has not been obtained, the service man should have the member sign a copy before service is established.

5. How to account for funds.

No additional requisitions will be honored by REA until you have accounted for funds paid contractors out of your previous requisition.

Before sending in a requisition to cover the additional 10 percent to be paid to contractors, the cooperative should send to REA a Material and Inspection Certificate of Approval for each installation. These, however, should not be accumulated awaiting the completion of the entire contract. They should be sent in periodically.

Revised Date March 10, 1941

REVISIONS TO OPERATIONS MEMORANDUM 21.1

WATTHOUR METERS AND SERVICE
EQUIPMENT
Procedure for Group Purchase

(The instructions contained in this Memorandum supersede all previous Memoranda on WATTHOUR METER GROUP PURCHASE PLAN, Operations Memoranda #29, #55, #62, #95, and all supplements and revisions thereof.)

TO ALL SYSTEM SUPERINTENDENTS, MANAGERS AND ENGINEERS:

It is now the policy of REA to lend funds for installing Meters, Service Equipment and Enclosures on premises of new signed members. There are two general types of Units, known as "Yard Pole Units" and "House Units."

Paragraph 4 - The Project Engineer has been changed to The Project Superintendent.

Utilization Division has been changed to Applications and Loans Division of REA.

Page 2, Paragraph 3 - The Project Engineer has been changed to The Project Superintendent.

Regional Engineer has been changed to the Cooperatives' Operations Division.

Utilization Division has been changed to the Applications and Loans Division.

MATERIAL AND INSTALLATION SPECIFICATIONS
For
MAIN SERVICE ENTRANCE INSTALLATIONS

These Specifications are divided into two parts for convenience and reference, as follows:

Part I. -- Specifications for Materials.
Part II. - Specifications for Installation.

The Specifications are presumably correct but complete accuracy is not guaranteed. Notes, figures, and writing on the Drawings must be strictly followed as they constitute a part of the Specifications. Should any error or ambiguity be discovered in the Drawings or in the Specifications, the Contractor shall report the same to the Engineer or Superintendent before starting the work. In the event of a disagreement as to the true intent and meaning of the Specifications, which shall not be adjusted between the Superintendent and the Contractor, such disagreement shall be referred to the Administrator and his decision shall be final and conclusive.

## Part I. -- Specifications for Materials.

GENERAL.

This part of the Specifications describes the types, sizes, and characteristics of the various materials required for the main service entrance installation as shown on the Drawings attached.

All materials used shall conform to the requirements of the Underwriters Laboratories, Inc., and, if such materials have been approved by the Underwriters Laboratories, Inc., they shall carry Underwriters Laboratories' label or listing of approval.

Alternative or equivalent materials specified in any Contractor's Proposal will be considered if detailed information to show that such materials will comply with these Specifications is furnished by the Bidder. Full data, including dimension drawings and photographs, shall be submitted on all new or special equipment.

HARDWARE.

Service Head. -- The Service Head shall either be of the "weather-head" or the "gooseneck service cable head" type. The "weather-head" type shall be of corrosion-resistive metal or well galvanized or otherwise properly coated with a resisting material, inside and outside, to prevent corrocion. Each "weather-head" shall be equipped with a wet-process porcelain or approved composition bushing having three or five openings, as required, so located that snow or rain cannot enter the fitting. The "weather-head," if used with service entrance cable, shall be provided with a clamp for the proper size cable, or, if used with rigid conduit, it shall be threaded. The "gooseneck" type shall be of a corrosion-resistive metal or well galvanized or otherwise properly coated with a resisting material, inside and outside, to prevent corrosion. Each "gooseneck" type service head shall be so constructed as to protect the outer diameter of the service entrance cable on the gooseneck bend, and shall be capable of being securely mounted to the building surface with one lag screw or expansion bolt. Each "gooseneck" type service head shall be provided with two clamps of the proper size to hold securely the

service entrance cable in its proper position. Service Entrance cable, when used with "gooseneck" type service head shall be taped and painted.

Sill Plates. - These shall be of the compound filled type giving a water-tight seal around the cable when properly attached to a flat surface. Metal shall be of corrosion-resistive metal, or well galvanized or otherwise properly coated with corrosive-resisting material to prevent corrosion.

Cable Straps. - These shall be malleable metal straps, effectively coated so as to be corrosion-resistive, and designed to hold cable securely to wall using a single screw (or expansion bolt) per clamp.

Service Entrance Cable Connectors. - Connectors for attaching entrance cable to meter shall be of indoor type with nut and bushing with connector fastened to cable with a split type cable clamp.

Conduit. - Conduit shall be rigid steel conduit or electrical metallic tubing bearing Underwriters Laboratories' approval, being galvanized or sherardized.

Conduit Fittings. - These shall be of corrosion-resistive metal or shall be well galvanized or otherwise properly coated, inside and out, to prevent corrosion and must be threaded type.

GALVANIZING.

All steel parts shall be hot dip galvanized in conformity with A.S.T.M. Specification 153-33T or shall have an equivalent coating of corrosion-resistive treatment.

GROUND ASSEMBLY.

Ground Rod. - Rods shall be of hard-drawn copper, copperweld, or equivalent nonrusting material.

Ground Rod Clamp. - Clamps shall be of copper, bronze, or equivalent nonrusting material.

Ground Wire. - Wire shall be of soft-drawn solid copper, and not less than No. 6 A.W.G.

Staples. - Staples for wire shall be galvanized steel or equivalent of suitable size and length.

CONDUCTORS.

The conductors shall be #8 or larger, Type RP, as specified in 1940 National Electrical Code and approved by the Underwriters Laboratories, Inc.

Jumpers. - All neutral jumpers shall be of bare No. 6 or large S.D. Copper.

Service Entrance Cable. - All service entrance cable shall be Type SE Style U approved by the Underwriters Laboratories, Inc.

CONNECTORS.

Connectors shall be standard split bolt distribution line type of non-rusting material.

## PART II. -- SPECIFICATIONS FOR INSTALLATION

GENERAL.

This part of the Specifications describes the construction and engineering methods to be employed in installing the Main Service Entrances as shown on the drawings.

All work must be installed in accordance with the National Electrical Code (regulation of the National Board of Fire Underwriters) and any local or state laws in existence at the time of installation.

All work shall be done in a thorough and workmanlike manner in accordance with the Specifications and Drawings, and shall be subject to the acceptance of the Superintendent and the Administrator. Deviations from the Specifications and Drawings shall not be permitted except upon the written permission of the Superintendent given with the approval of the Administrator.

SCOPE.

The Specifications cover the installation of Main Service Entrances for the rural electric transmission or distribution system designated by the Rural Electrification Administration as _____. Said service entrance installations consist of groups of 25 or more service entrance installation assembly units.

The System is located in the county or counties of _____

_____

State of _____.

All the above is as included within the terms of the Loan Contract.

DRAWINGS.

The Drawings, showing the typee of construction to be used for the various conditions, are attached separately hereinafter and are part of these Specifications.

GROUND WIRE.

From the point of connection with the neutral service wire the ground wire shall extend continuously through the clamps which support the service cable to the ground rod to which it shall be firmly clamped.

If on pole meter loops, ground wire shall be connected to neutral terminal of meter and extended to ground electrode as shown on Drawing.

GROUNDS.

Ground rods shall be driven full length in undisturbed earth at least 2 feet from the pole or building and the tops shall be at least 12 inches below the surface of the earth. The trench and ground rod hole will be back-filled and firmly tamped.

MAIN SERVICE ENTRANCE LOCATION.

The Contractor will be required to obtain approval of the main service entrance location, whether on yard pole or residence, from an authorized agent of the Owner whose action shall have the approval of the property owner.

MAIN SERVICE ENTRANCE ON RESIDENCE.

Each Main Service Entrance on a residence shall be located as near the kitchen as possible and shall be in such position to conform to provisions made by high line construction contractor for service drop to premises.

In the event the house wiring has been completed prior to the installation of the Main Service Entrance on residence, the service entrance and service switch must be located in such position as to conform to the termination of the house branch circuits. Service entrance wires, ground wire, etc., must be located at least 5 feet, if possible, from all doors or windows.

Unit prices for main service entrance installations on residence will be complete (except meters and service equipment enclosures) including ground rod, ground wire, ground clamp, service entrance cable, weatherproof service head, sill plate, supports, clamps, inspection, etc. Each conductor of the cable shall extend beyond the service head and form drip loop when connecting to service drop. The bottom of the drip loop shall be not less than 6 inches below the service head.

Grounding conductor shall be connected to service drop neutral near wire holder, thence run down to ground on outside of building wall and connect to ground electrode by means of approved type copper clamps. No soldering of copper straps will be permitted. Grounding conductor will be securely fastened in place along side service cable both within the cable straps, which shall be spaced not to exceed 4.5 feet. Owner will furnish meter and service equipment enclosures switch, but unit bid will include obtaining this equipment from the Owner's office, installing and connecting same to service entrance cable.

MAIN SERVICE ENTRANCE ON YARD POLE.

Unit prices for main service entrance on yard pole, which will be referred to as "Yard Pole Meter Loop," shall be given for three separate sizes:

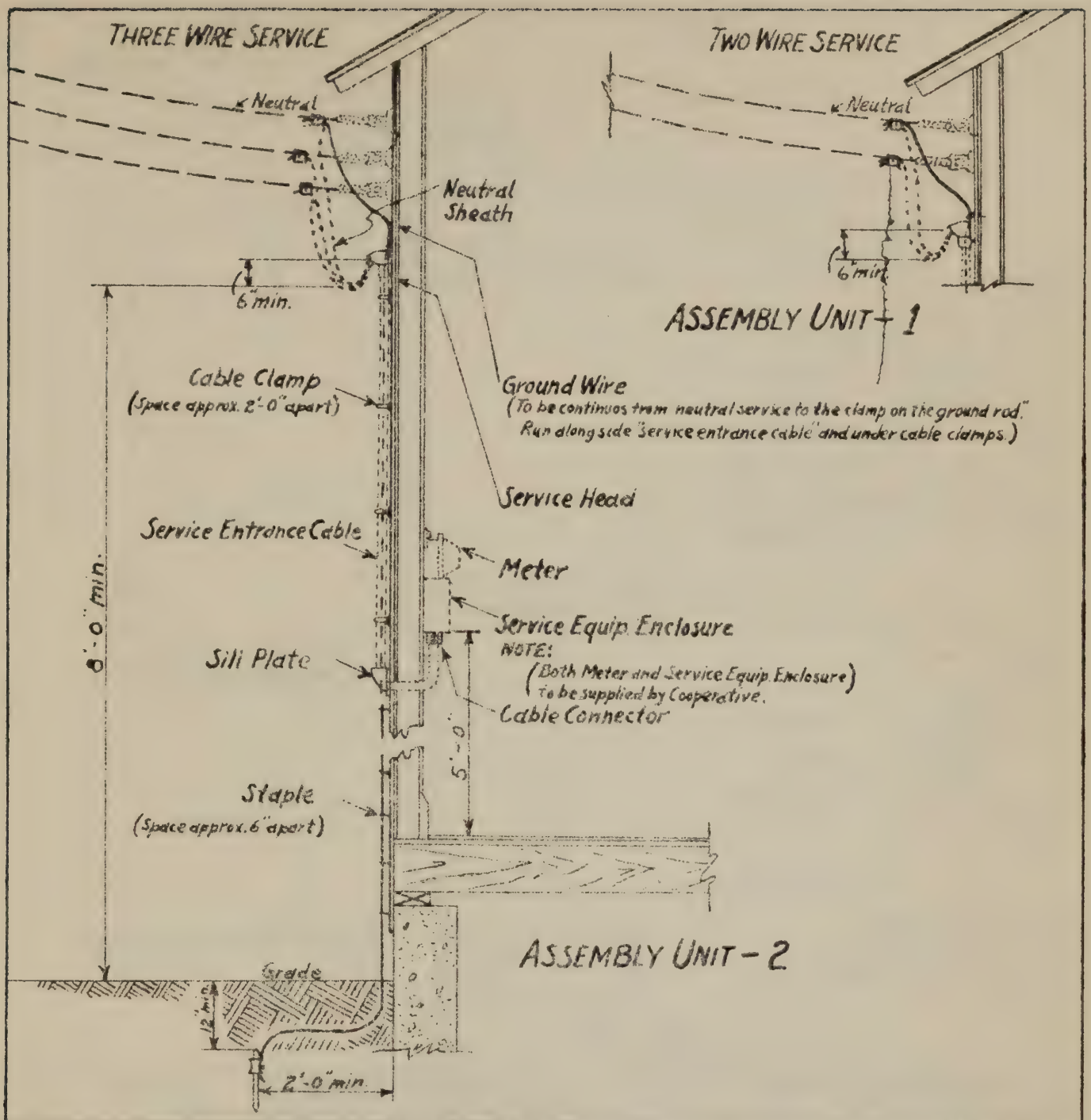
1. Four No. 6 A.W.G. insulated Type R.P. and one No. 6 A.W.G. bare in $1\frac{1}{4}$-inch rigid conduit.
2. Four No. 4 A.W.G. insulated Type R.P. and one No. 6 A.W.G. bare in $1\frac{1}{4}$-inch rigid conduit.
3. Four No. 2 A.W.G. insulated Type R.P. and one No. 6 A.W.G. bare in $1\frac{1}{2}$-inch rigid conduit.

Each unit price will include labor, service conductors, conduit, weatherproof service head, grounding conductor, ground electrode, ground clamps, bushings, conduit fittings, supports, etc., and all incidentals to make a complete installation as shown on the Drawing. Meter loop will consist of five wires in conduit, as follows: Two insulated and one bare neutral on line side of meter and two insulated on load side. Neutral of service shall be connected to neutral terminal of meter, and thence continuously without splicing shall be extended through bushing in bottom meter opening to ground.

All conductors shall be extended beyond service head to form drip loop connections to building feeders and service drop. The bottom of the drip loop shall be not less than 6 inches below the service head.

TESTING AND INSPECTION.

Each service entrance shall be tested for and left free of all grounds, shorts, etc. Contractor will be required to obtain and furnish to the Owner a certificate of inspection and approval in duplicate from the authorized wiring inspector on the project, and to include the cost of each such inspection in the bid price for the assembly unit.

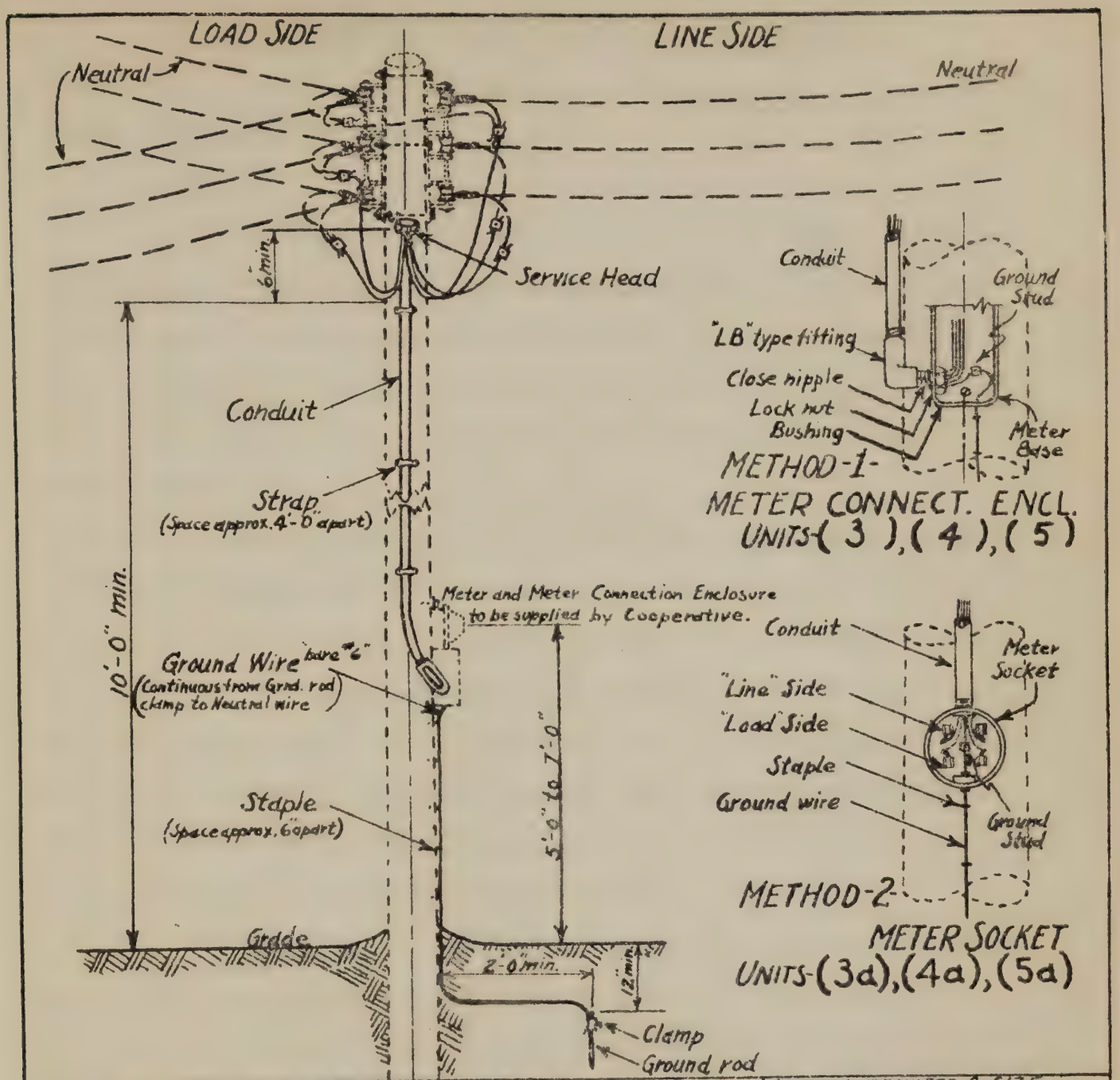



| MATERIAL | NUMBER REQ'D. 1 | NUMBER REQ'D. 2 | MATERIAL | NUMBER REQ'D. 1 | NUMBER REQ'D. 2 |
|---|---|---|---|---|---|
| Clamp, cable, with screws | as req'd | as req'd | Ground Wire, with staples | as req'd | as req'd |
| Clamp, ground rod | 1 | 1 | Service head | 1 | 1 |
| Connector, service cable | 1 | 1 | Sill plate, with sealing compound | 1 | 1 |
| Cable, Service Entrance | as req'd | as req'd | | | |
| Ground rod, 1/2" x 8'-0" lg. | 1 | 1 | | | |

SERVICE ENTRANCE INSTALLATION (RESIDENCE)

Scale: N.T.S.

DATE:




| MATERIAL | NUMBER REQUIRED & SIZE | | | | | |
|---|---|---|---|---|---|---|
| | 3 | 3a | 4 | 4a | 5 | 5a |
| Bushing | 1, 1¼" | | 1, 1¼" | | 1, 1½" | |
| Clamp, ground rod | 1 | 1 | 1 | 1 | 1 | 1 |
| Conductor | 4, #6 | 4, #6 | 4, #4 | 4, #4 | 4, #2 | 4, #2 |
| Conduit | 1, 1¼" | 1, 1¼" | 1, 1¼" | 1, 1¼" | 1, 1½" | 1, 1½" |
| Condulet, type "LB" | 1, 1¼" | | 1, 1¼" | | 1, 1½" | |
| Connector, solderless | as | required | — | — | — | — |
| Ground rod, ½" x 8'-0" lg. | 1 | 1 | 1 | 1 | 1 | 1 |

| MATERIAL | NUMBER REQUIRED & SIZE | | | | | |
|---|---|---|---|---|---|---|
| | 3 | 3a | 4 | 4a | 5 | 5a |
| Groundwire with staple | 1, #6 | 1, #6 | 1, #6 | 1, #6 | 1, #6 | 1, #6 |
| Lock Nut | 1, 1¼" | | 1, 1¼" | | 1, 1½" | |
| Nipple, close | 1, 1¼" | | 1, 1¼" | | 1, 1½" | |
| Service Head, 5 wire | 1, 1¼" | 1, 1¼" | 1, 1¼" | 1, 1¼" | 1, 1½" | 1, 1½" |
| Strap with screws | as | required | — | — | — | — |

SERVICE YARD POLE METER INSTALLATION

Scale N.T.S.

Date

PROPOSAL TO FURNISH AND INSTALL MAIN SERVICE ENTRANCES

To _____

(hereinafter called the "Owner").

1. GENERAL

(a) The undersigned (hereinafter called the "Bidder") proposed to furnish and install the main service entrances (hereinafter called the "Installations") to the premises of approximately _____ consumers of electric energy to be served through the rural electric distribution system of the Owner, which system is designated by the Rural Electrification Administration as _____.
The Installations are described in the Specifications, Description of Assembly Units and Drawings therefor attached hereto and made a part hereof. The Bidder agrees to furnish all materials, machinery, tools, equipment (except meters and service equipment enclosures, which the Owner shall furnish but the Bidder shall install), Labor, Transportation, and other means necessary therefor, for the prices hereinafter stated, and to make the Installations wherever directed so to do by the Owner. Such prices also include the amounts necessary to pay the fees for all testing and inspection.

(b) The Bidder understands and agrees that the various Assembly Units on which bids are made in this Proposal are as set out in the "Description of Assembly Units" attached hereto and made a part hereof, that all said bids are on a unit basis, and that the Owner may specify any number or combination of Assembly Units that the Owner, with the approval of the Administrator of the Rural Electrification Administration (hereinafter called the "Administrator") may deem necessary for the Installations.

(c) The Bidder has made a careful examination of the sites of the Installations and of the Specifications, Description of Assembly Units and Construction Drawings, and has become informed as to the location and

PROPOSAL TO REVISE AND REPEAL MILITARY LIGHTS LEGISLATION

To _____

(hereinafter called the "Owner").

1. Recital.

(a) The undersigned (hereinafter called the "Bidder") is willing to furnish and install the radio navigation equipment (hereinafter called the "Installations") at the premises of the Owner _____ consumers of electric energy to be served through the usual electric distribution system of the Owner, which system is designated by the Usual Place of Delivery _____ installations are _____

The Installations are described in the Specifications. Upon _____ by Unita and Exempts therefor executed herein and made a part hereof, Bidder agrees to furnish all materials, workmen, tools, conveyance [illegible] and service equipment [illegible], which the Owner shall furnish [illegible] the Bidder shall install, [illegible] Transportation, and other terms [illegible] hereafter, the prices hereinafter stated, and to make the Installations [illegible] hereinafter to do the work. Such prices also [illegible] work is necessary to pay the cost of all labor and transportation

(b) The Bidder acknowledges and agrees that the radio [illegible] assembly [illegible] which bids are made in this proposal are or are [illegible] the Specifications of a supply [illegible] and made a part hereof, that [illegible] will said bids are in a unit be [illegible], and that the Owner may [illegible] or modification of Exempt [illegible] the work, with the approval of [illegible] Administrator of the Rural Electrification Administration (hereinafter called the "Administrator") may deem necessary for the Installations.

(c) The Bidder has made a careful examination of the plans of the Installations and of the Specifications, Description of Exempts [illegible] and Transportation [illegible], and has [illegible] informed as to the location and

nature of the proposed work, the transportation facilities, the kind and character of soil to be encountered and the kind of facilities required before and during the performance of the work and has become acquainted with the labor conditions which would affect the work.

(d) The Bidder proposes to install Assembly Units of the types and for the prices listed below:

RESIDENCE UNITS

| Assembly No. of Units | Unit | Size | | Unit Price |
|---|---|---|---|---|
| _____ | #1 | 8-2 | | _____ ea. |
| _____ | #2 | 6-3 | | _____ ea. |
| | | | Yard Pole Units<br>Method - 1 | |
| _____ | #3 | 6-3 | 5-wire pole meter loop - 15' | _____ ea. |
| _____ | #4 | 4-3 | " " " " " | _____ ea. |
| _____ | #5 | 2-3 | " " " " " | _____ ea. |
| | | | Method - 2 | |
| _____ | #3A | 6-3 | 5-wire pole meter loop - 15' | _____ ea. |
| _____ | #4A | 4-3 | " " " " " | _____ ea. |
| _____ | #5A | 2-3 | " " " " " | _____ ea. |

Unit prices for each house service entrance are based on 8' of service entrance cable. For each foot of entrance cable in excess of 8' required on any service the unit prices shall be increased as follows:

No. 1_____: No. 2_____. For each foot of service in excess of 15' on pole meter loops, No. 3_____: No. 4_____: No. 5_____.

(e) The Unit Prices set forth herein include all amounts which are or may be payable by the Bidder or the Owner on account of taxes imposed by any taxing authority upon the sale, purchase or use of materials, supplies or equipment to be incorporated in the work as part of such Assembly Units.

[illegible]

[illegible]

[illegible]

The Bidder shall pay all such taxes and shall furnish to appropriate taxing authorities required information and reports pertaining thereto.

2. Time of Completion. Each Installation shall be commenced within ten (10) calendar days after the Owner shall have given the Bidder written notice to commence such Installation, shall be prosecuted diligently, and each Installation shall be completed to the satisfaction of the Owner and the Administrator within calendar days after the giving of the notice. The time for completion shall be extended for the period of any reasonable delay due exclusively to causes beyond the control and without the fault of the Bidder, including acts of God, fires, floods and acts or omissions of the Owner with respect to matters for which the Owner is solely responsible; provided, however, that no such delay in the time for completion of the work or in the progress of the work shall result in any liability on the part of the Owner.

3. DEFECTIVE WORKMANSHIP AND MATERIALS. The acceptance of any workmanship, materials or equipment by the Owner shall not preclude the subsequent rejection thereof if such workmanship, materials or equipment shall be found to be defective after delivery or installation, and any such workmanship, materials or equipment found defective before final acceptance of the work or within one (1) year after completion shall be remedied or replaced, as the case may be, by and at the expense of the Bidder. In the event of failure by the Bidder so to do, the Owner may remedy such defective workmanship or replace such defective materials or equipment, as the case may be, and in such eventthe Bidder shall pay to the Owner the cost and expense thereof.

4. PAYMENTS AND RELEASE OF LIENS.

(a) Payment for each Installation shall be made within fifteen (15) days after a certificate of completion and approval has been given to the Owner by the Wiring Inspector authorized by the Administrator to make such inspection and approval of the invoice pertaining thereto by the Superintendent of the Owner.

(b) Upon the completion of the Installations by the Bidder but prior to the payment to the Bidder of any amount in excess of 90% of the total cost of all Assembly Units comprising the completed Installations, or at any other time specified by the Owner, with the approval of the Administrator, the Bidder shall deliver to the Owner in duplicate releases of all liens and rights to claim any lien, in a form satisfactory to the Administrator, from all manufacturers, materialmen and subcontractors furnishing services or materials for the Installations, and an affidavit, in a form satisfactory to the Administrator, to the effect that all labor used on or for the Installations has been paid and that all such releases have been submitted to the Owner; and the Owner shall deliver to the Administrator for the Administrator's approval one of the duplicates of each such release and affidavit.

(c) The Bidder shall pay each materialman and each subcontractor, if any, within five (5) days after receipt of any payment from the Owner, the amount thereof allowed the Bidder for and on account of materials furnished or work performed by each materialman or each subcontractor.

5. PROTECTION TO PERSONS AND PROPERTY. The Bidder shall at all times take all reasonable precautions for the safety of employees on the work and of the public and shall comply with all applicable provisions of federal, state and municipal safety laws and building and construction codes. All machinery and equipment and other physical hazards shall be guarded in accordance with the "Manual of Accident Prevention in Construction" of the Associated General Contractors of America, unless such instructions are incompatible with federal, state or municipal laws or regulations. The Bidder will hold the Owner harmless from any and all claims for injuries to persons or for damage to property happening by reason of any negligence on the part of the Bidder, or any of the Bidder's agents or employees during the work.

6. INSURANCE. If the number of consumers to be served as set forth in Paragraph 1 (a) above shall be in excess of ____, the Bidder will take out and

[illegible] the completion of the Installations by the 3rd or [illegible]

[illegible] the Bidder of [illegible] process in excess of [illegible] the [illegible] Bidder appropriate the required Installations, or [illegible] [illegible] [illegible] by the Owner, with the approval of the Administrator, [illegible] [illegible] deliver to the Owner in duplicate evidence of all liens and right [illegible] [illegible] in a form satisfactory to the Administrator. From all materialmen, [illegible] men and subcontractors [illegible] furnished for materials [illegible] [illegible] and an affidavit, in a form satisfactory to the Administrator [illegible] [illegible] that all labor used in or for the Installations has been paid and [illegible] [illegible] releases have been submitted to the Owner; and the Owner shall deliver to the Administrator for the Administrator's personal use of [illegible] [illegible] leases of each such release and affidavit.

(e) The Bidder shall pay each materialman and each subcontractor, if any, within five (5) days after receipt of any payment from the Owner, the amount thereof allowed the Bidder for and on account of materials furnished or work performed by such materialman or such subcontractor.

[illegible] TO PERSONS AND PROPERTY. The Bidder shall at all times take all reasonable precautions for the safety of employees on the work and of the public and shall comply with all applicable provisions of federal, state and municipal safety laws and building and construction codes. All machinery and equipment and other physical hazards shall be guarded in accordance with the "Manual of Accident Prevention in Construction" of the Associated General Contractors of America, unless such instructions are incompatible with federal or municipal laws or regulations. The Bidder will hold the Owner harmless from any and all claims for injuries to persons or for damage to property resulting by reason of any negligence on the part of the Bidder, or any of his [illegible] [illegible] upon during the work.

6. PAYMENT. If the number of measurements to be covered in not fixed in Paragraph 1 (a) above (call it in excess of [illegible]), the Bidder will take [illegible]

maintain insurance, satisfactory to the Administrator, in the following minimum requirements:

(a) Public liability insurance in the limits of $10,000 for injuries to or death of one person and $20,000 for one accident, and property damage liability insurance in the limit of $2,000 per accident and $10,000 for accidents during the policy period, covering accidents resulting during the week other than by motor vehicles.

(b) Public liability insurance in the same limits as set forth above under (a), and property damage liability insurance in the limit of $5,000 covering accidents resulting from the operation of any motor vehicle used in connection with the work, whether or not owned by the Bidder.

7. PURCHASE OF MATERIALS. The Bidder will purchase all materials and supplies outright and not subject to any conditional sales agreement, bailment lease or other agreement reserving to the seller any right, title or interest therein. All materials and supplies shall become the property of the Owner when erected in place.

8. PATENT INFRINGEMENT. The Bidder will save harmless and indemnify the Owner from any and all claims, suits and proceedings for the infringement of any patent or patents covering any materials or equipment used in the work.

9. COMPLIANCE WITH STATUTES AND REGULATIONS.

(a) The Bidder will comply with all applicable statutes, ordinances, rules and regulations pertaining to the work. The Bidder acknowledges that it is familiar with the Rural Electrification Act of 1936 as amended, the so-called "Kick-back" Statute (48 Stat. 948), and regulations issued pursuant thereto, copy of which is attached hereto and made part hereof, and Section 35 of the United States Criminal Code as amended.

maintain insurance, satisfactory to the Administrator, in the following minimum amounts:

(a) Public liability insurance in the limits of $10,000 for injuries to or death of one person and $20,000 for accident, and property damage liability insurance [illegible] limit of $5,000 per accident [illegible] during the motor vehicle, covering accidents resulting during the work from claims by motor vehicle [illegible]

(b) Public liability insurance [illegible] for death of [illegible] der [illegible] insurance [illegible] the limit of [illegible] covering such [illegible] from the operation of any motor vehicle in connection with the work, whether owned by the Bidder.

7. [illegible] OF MATERIALS. The Bidder will purchase [illegible] supplies outright and not subject to any conditional sales agreement, bailment lease or other agreement reserving to the seller any right, title or interest therein. All materials and supplies shall become the property of the Owner when erected in place.

8. [illegible] INSURANCE. The Bidder will save harmless and indemnify the Owner from any and all [illegible] and on account for the infringement of any patent on materials [illegible] materials or equipment used in the work.

9. [illegible] WITH [illegible] AND REGULATIONS.

(a) The Bidder will comply with all applicable statutes, ordinances, rules and regulations pertaining to the work. The Bidder acknowledges that it is familiar with the Davis Bacon Act of 1931 as amended, the so-called "Kick-back" Statute (48 Stat. 948), and regulations issued pursuant thereto, copy of which is attached hereto and made part hereof, and Section 35 of the United States Criminal Code as amended.

(b) The Bidder will, except to the extent that the Administrator shall otherwise direct, incorporate in the Installations only such unmanufactured articles, materials and supplies as have been mined or produced in the United States and only such manufactured articles, materials and supplies as have been manufactured in the United States substantially all from articles, materials or supplies mined, produced, or manufactured, as the case may be, in the United States.

10. TERMINATION. The time of completion of each Installation as set forth in Paragraph 2 hereof is of the essence of the contract to be effected by acceptance of this proposal. If the successful Bidder neglects, refuses or fails to complete the work within such time, the Owner shall have the right to terminate the contract to be effected by acceptance of this Proposal provided it shall have given ten (10) days prior notice in writing to the Bidder of its intention so to do.

11. CUMULATIVE REMEDIES. Every right or remedy herein conferred upon or reserved to the Owner or the Administrator shall be cumulative and shall be in addition to every right and remedy now or hereafter existing at law or in equity or by statute. The pursuit of any right or remedy shall not be construed as an election.

12. BOND. If the number of consumers to be served as set forth in Paragraph 1 (a) above shall be in excess of _____, the Bidder, if this Proposal is accepted, will furnish a contractor's bond in the form attached hereto and made part hereof, with a surety or sureties satisfactory to the Owner and the Administrator, in a penal sum not less than the contract price. In the event that the surety or sureties on such bond shall at any time become unsatisfactory to the Owner or the Administrator, the Bidder will deliver to the Owner another or an additional bond in such form and with such surety or sureties as the Owner and the Administrator may approve.

(b) The Bidder will, except to the extent that [illegible] shall otherwise direct, incorporate in the Contract [illegible] manufacture, materials and supplies as have been mined or produced in [illegible] United States and only such machinery, equipment, materials and supplies as have been manufactured in the United States substantially from articles, materials or supplies mined, produced, or manufactured, as the case may be, in the United States.

10. PERMITS. The time of completion of each Installation as set forth in Paragraph 3 hereof is of the essence of the Contract to be evidenced by acceptance of this proposal. If the successful Bidder neglects, refuses or fails to complete the work within such time, the Owner shall have the right but not the necessity to be effected by [illegible] to procure [illegible] to shall have given ten (10) days prior notice in writing to the Bidder of [illegible] intention so to do.

11. COMPLETE [illegible]. Every right or remedy [illegible] reserved to the Owner or the Administrator shall be cumulative and shall be in addition to every right and remedy now or hereafter existing [illegible] or by statute. The pursuit of any right or remedy shall not be construed as an election.

12. EQUIP. If the number of consumers to be served as set forth in Paragraph 1 (a) above shall be in excess of _____, the Bidder, if this proposal is accepted, will furnish a satisfactory bond in the form attached [illegible] such bond, with a surety or sureties satisfactory to the Owner and the Administrator, in a penal sum not less than the contract price. In the event that the surety or sureties on such bond shall at any time [illegible] to the Owner or the Administrator, the Bidder will deliver to [illegible] another or an additional bond in such form and with such surety or sureties [illegible] Owner and the Administrator may approve.

13. NON-ASSIGNMENT OF CONTRACT. The Bidder will not assign the contract effected by an acceptance of this Proposal, or any part thereof, or enter into any contract with any person, firm or corporation for the performance of the Bidder's obligations thereunder, or any part thereof, without the approval in writing of the Owner and the Administrator.

14. APPROVAL BY THE ADMINISTRATOR. No acceptance of this Proposal shall become effective until approved in writing by the Administrator.

_____
Bidder

By _____

_____
(Title)

_____

_____
(Address)

Date _____

13. NON-ASSIGNMENT OF CONTRACT. The Bidder will not assign the contract affected by an acceptance of this Proposal, or any part thereof, or enter into any contract with any person, firm or corporation for the performance of the Bidder's obligations thereunder, or any part thereof, without the previous written consent of the Owner and the Administrator.

14. APPROVAL BY THE ADMINISTRATOR. No acceptance of this Proposal shall become effective until approved in writing by the Administrator.

_____
Bidder

_____

_____
(Title)

_____

_____
(Address)

Date _____

## ACCEPTANCE

The Owner accepts the following items of the foregoing Proposal to furnish and install approximately _____ main service entrances, on the terms and conditions therein stated.

Items _____

_____

TOTAL CONTRACT PRICE $_____

_____
Owner

By_____
President

ATTEST:

_____
Secretary

Date_____

Pursuant to the provisions of Public Act No. 324, 73rd Congress, approved June 13, 1934, (48 Stat. 948) concerning rates of pay for labor, the Secretary of the Treasury and the Secretary of the Interior hereby jointly promulgate the following resolutions:

Section 1. Said Act reads as follows:

"To effectuate the purpose of certain statutes concerning rates of pay for labor, by making it unlawful to prevent anyone from receiving the compensation contracted for thereunder, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, that whoever shall induce any person employed in the construction, prosecution, or completion of any public building, public work, or building or work financed in whole or in part by loans or grants from the United States, or in the repair thereof to give up any part of the compensation to which he is entitled under his contract of employment, by force, intimidation, threat of procuring dismissal from such employment, or by any other manner whatsoever, shall be fined not more than $5,000, or imprisoned not more than five years, or both."

"Sec. 2. To aid in the enforcement of the above section, the Secretary of the Treasury and the Secretary of the Interior jointly shall make reasonable regulations for contractors or subcontractors on any such building or work, including a provision that each contractor and subcontractor shall furnish weekly a sworn affidavit with respect to the wages paid each employee during the preceding week."

Section 2. Each contractor and subcontractor engaged in the construction, prosecution, or completion of any building or work of the United States or of any building or work financed in whole or in part by loans or grants from the United States, or in the repair thereof, shall furnish each week an affidavit with respect to the wages paid each employee during the preceding week. Said affidavit shall be in the following form:

State of .....)
) ss.
County of .....)

I, .....(Name of party signing affidavit).....(Title), do hereby certify that I am (the employee of)..... (Name of contractor or subcontractor) who supervises the payment of the

employees of said contractor (subcontractor); that the attached pay roll is a true and accurate report of the full weekly wages due and paid to each person employed by the said contractor (subcontractor) for the construction of .....(project), for the weekly pay roll period from the ..... day of ..... 194 , to the ..... ..... day of ....., 194 ; that no rebates or deductions from any wages due any such person as set out on the attached pay roll have been directly or indirectly made; and that, to the best of my knowledge and belief, there exists no agreement or understanding with any person employed on the project, or any person whatsoever, pursuant to which it is contemplated that I or anyone else shall, directly or indirectly, by force, intimidation, threat or otherwise, induce or receive any deductions or rebates in any manner whatsoever from any sum paid or to be paid to any person at any time for labor performed or to be performed under the contract for the above named project.

Sworn to before me this .... day of
....., 194 .

Section 3. Said affidavit shall be executed and sworn to by the officer or employee of the contractor or subcontractor who supervises the payment of its employees.

Said affidavit shall be delivered, within three days after the payment of the payroll to which it is attached, to the Government representative in charge at the site of the particular project in respect of which it is furnished, who shall forward the same promptly to the Federal agency having control of such project. If no Government representative is in charge at the site, such affidavit shall be mailed within such three-day period to the Federal agency having control of the project.

Section 4. At the time upon which the first affidavit with respect to the wages paid to employees is required to be filed by a contractor or subcontractor pursuant to the requirements of these regulations, there shall also be filed in the manner required by Section 3 hereof a statement under oath by the contractor or subcontractor, setting forth the name of its officer or employee who supervises the payment of employees, and that such

officer or employee is in a position to have full knowledge of the facts set forth in the form of affidavit required by Section 2 hereof. A similar affidavit shall be immediately filed in the event of a change in the officer or employee who supervises the payment of employees. In the event that the contractor or subcontractor is a corporation, such affidavit shall be executed by its president or a vice-president. In the event that the contractor or subcontractor is a partnership, such affidavit shall be executed by a member of the firm.

Section 5. These regulations shall be made a part of each contract executed after the effective date hereof by the Government for any of the purposes enumerated in Section 2 hereof.

Section 6. These regulations shall become effective on January 15, 1935.

H. Morgenthau, Jr.
Secretary of the Treasury

Harold L. Ickes
Secretary of the Interior

officer or employee is in a position to have full knowledge of the facts set forth in the form of affidavit required by Section 2 hereof. Affidavits shall be immediately filed in the office of the Secretary of the Department or bureau to which supervision the payment of employees. In the event that the employee or subcontractor is a corporation, such affidavit shall be executed by its president or a vice-president. In the event that the subcontractor is a partnership, such affidavit shall be executed by a member of the firm.

Section 4. These regulations shall be made a part of each contract and order with the attached form hereof by the Government for any of the purposes enumerated in Section 1 hereof.

Section 5. These regulations shall become effective on January 15, 1940.

H. Morgenthau, Jr.
Secretary of the Treasury

Harold L. Ickes
Secretary of the Interior

CONTRACTOR'S BOND

1. Know all men that we, _____

_____, as Principal, and _____

_____, as Surety, are held and

firmly bound unto _____
(hereinafter called the "Owner") and unto the United States of America (hereinafter called the "Government") and unto all persons, firms, and corporations who or which may furnish materials (except meters and service equipment enclosures) for or perform labor in connection with the furnishing and installing of the main service entrance (hereinafter called the "Installations") to the premises of consumers of electric energy to be served through the rural electric transmission or distribution system (hereinafter called the "System") of the Owner, designated by the Rural Electrification Administration as _____

_____,

and to their successors and assigns, in the penal sum of _____

_____ dollars ($_____), as hereinafter set forth and for the payment of which sum well and truly to be made we bind ourselves, our executors, administrators, successors, and assigns jointly and severally by these presents. Said Installations are described in a certain contract (hereinafter called the "Installation Contract") between the Owner and the Principal, dated _____

_____, 19_____, pursuant and subject to a loan contract or loan contracts (hereinafter called the "Loan Contract") between the Owner and the Government, acting through the Administrator of the Rural Electrification Administration (hereinafter called the "Administrator").

2. The condition of this obligation is such that if the Principal shall well and truly perform and fulfill all the undertakings, covenants, terms, conditions, and agreements of the Installation Contract and any amendments thereto, whether such amendments are for additions, decreases, or changes in the Installations or the materials, their locations, quantity, kind, or price, or any other purpose whatsoever, and whether such amendments are made with or without notice to the Surety, and shall fully indemnify and save harmless the Owner and the Government from all costs and damages which they, or either of them, shall suffer or incur by reason of any failure so to do, and shall fully reimburse and repay the Owner and the Government for all outlay and expense which they, or either of them, shall incur in making good any such failure of performance on the part of the Principal, and shall promptly make payment to all persons supplying labor and materials (except meters and service equipment enclosures) for use in the Installations contemplated in the Installation Contract and any amendments thereto, and shall well and truly reimburse the Owner and the Government, as their respective interests may appear, for any excess in the cost of the Installations over the cost thereof as provided in the Installation Contract and any amendments thereto, occasioned by any default of the Principal under the Installation Contract and any amendments thereto, then this obligation shall be null and void, but otherwise shall remain in full force and effect.

3. It is expressly agreed that this bond shall be deemed amended automatically and immediately, without formal and separate amendment hereto, upon any amendment to the Installation Contract, so as to bind the Principal and the Surety to the full and faithful performance of the Installation Contract as so amended, provided only that the total amount of all increases in the cost of the Installations shall not exceed 20 percent of the amount of the maximum price set forth in the Installation Contract. The term "amendment," wherever used in this bond, and whether referring to this bond, the Installation Contract or the Loan Contract, shall include any alteration, addition, extension, modification, amendment, rescission, waiver, release, or annulment, of any character whatsoever.

4. It is expressly agreed that any amendment which may be made by agreement or otherwise between the Principal and the Owner in the terms, provisions, covenants, and conditions of the Installation Contract, or in the terms, provisions, covenants, and conditions of the Loan Contract (including, without limitation, the granting by the Administrator to the Owner of any extension of time for the performance of the obligations of the Owner under the Loan Contract or the granting by the Administrator or the Owner to the Principal of any extension of time for the performance of the obligations of the Principal under the Installation Contract, or the failure or refusal of the Administrator or the Owner to take any action, proceeding or step to enforce any remedy or exercise any right under either the Installation Contract or the Loan Contract, or the taking of any action, proceeding or step by the Administrator or the Owner, acting in good faith upon the belief that the same is permitted by the provisions of the Installation Contract or the Loan Contract) shall not in any way release the Principal and the Surety, or either of them, or their respective executors, administrators, successors, or assigns, from liability hereunder. The Surety hereby acknowledges receipt of notice of any amendment, indulgence, or forbearance, made, granted, or permitted.

5. This bond is made for the benefit of all persons, firms, and corporations who or which may furnish any materials (except meters and service equipment enclosures) or perform any labor for or on account of the Installations to be performed under the Installation Contract and any amendments thereto, and they, and each of them, are hereby made obligees hereunder with the same force and effect as if their names were written herein as such, and they, and each of them, may sue hereon.

IN WITNESS WHEREOF, the undersigned have caused this instrument to be executed and their respective corporate seals to be affixed and attested by their duly authorized representatives this

_____ day of _____, 19_____

_____(SEAL)
Principal.

Attest: By _____

_____ _____
Secretary.

_____(SEAL)
Surety.

Attest: By _____

_____ _____

Secretary.

By _____

Resident Agent of Surety.

_____

(The Contractor's Bond must be signed with the full name of the Contractor. If the Contractor is a partnership the Contractor's Bond must be signed in the partnership name by each partner. If the Contractor is a corporation the Contractor's Bond must be signed in the corporate name by a duly authorized officer and the corporate seal affixed and attested by the Secretary of the corporation. A typewritten copy of all such names and signatures shall be appended. The Contractor's Bond must be countersigned by a duly authorized resident agent of the Surety.)

SUGGESTED MAXIMUM UNIT PRICE
SCHEDULE

MAIN SERVICE ENTRANCES - NO SWITCH FURNISHED
BUT INCLUDE CONNECTIONS
2 Wire - 8

| | |
|---|---|
| 8' Cable @ 6¢ | $ .48 |
| Service Head | .25 |
| Cable Straps | .10 |
| 1 Connector | .15 |
| 1 Sill Plate | .18 |
| Grd. Wire 12' @ 2¢ | .24 |
| 1 Grd. rod copperweld 8' x ½" | 1.00 |
| 1 Grd. Clamp | .19 |
| Grd. wire staples | .05 |
| Labor | 1.50 |
| | $4.14 |
| P & O 33 1/3% | 1.38 |
| | $5.52 |
| Inspection Fee | .50 |
| Total | $6.02 |

Maximum price which the cooperative will be permitted to pay for these entrances $6.25.

For each foot of cable required beyond 8' add 12¢ per foot.

[illegible]

SUGGESTED MAXIMUM UNIT PRICE
SCHEDULE

MAIN SERVICE ENTRANCES - NO SWITCH FURNISHED
BUT INCLUDE CONNECTIONS
3 Wire #6

| | | |
|---|---|---|
| 8' Cable @ 12¢ | | $ .96 |
| Service Head | | .38 |
| Cable Straps | | .15 |
| 1 Connector | | .18 |
| 1 Sill Plate | | .18 |
| Grd. wire 12' #6 | | .24 |
| 1 Copperweld Grd. rod 8' | | 1.00 |
| 1 Copper Grd. clamp | | .19 |
| Grd. wire staples | | .05 |
| Labor | | 2.00 |
| | | $5.33 |
| P & O 33 1/3% | | 1.78 |
| | | $7.11 |
| Inspection Fee | | .50 |
| | Total | $7.61 |

Maximum price which the cooperative will be permitted to pay for these entrances $7.75.

For each foot of cable required above 8' add 20¢ per foot.

SUGGESTED MAXIMUM UNIT PRICE SCHEDULE FOR 3 WIRE #2
POLE METER LOOP

| 15' Loop | Unit 5 | Unit 5a |
|---|---|---|
| 1 - 1½" Bushing @ $ .23 | $ .23 | |
| 1 - Ground Rod Clamp @ $ .19 | .19 | $ .19 |
| 76' - Conductor @ $ .065 | 4.94 | 4.94 |
| 15' - Conduit @ $ .165 | 2.48 | 2.48 |
| 1 - Condulet, type "LB" @ $1.03 | 1.03 | |
| 3 - Solderless Connectors @ $ .09 | .27 | .27 |
| 1 - Ground Rod - ½" x 8' @ $1.00 | 1.00 | 1.00 |
| 30' - Bare #6 Ground wire @ $ .02 | .60 | .60 |
| 1 - Lock nut @ $ .02 | .02 | |
| 1 - 1½" Close Nipple @ $ .07 | .07 | |
| 1 - 5 wire, 1½" service head @ $ .65 | .65 | .65 |
| 4 - straps, with screws | .05 | .05 |
| Ground wire staples | .02 | .02 |
| Total Materials | $11.55 | $10.20 |
| Labor | 2.00 | 2.00 |
| | $13.55 | $12.20 |
| P and O 25% | 3.39 | 3.05 |
| | $16.94 | $15.25 |
| Inspection Fee | .50 | .50 |
| Total | $17.44 | $15.75 |

Add $.50/ft. for each additional foot.

SUGGESTED MAXIMUM UNIT PRICE SCHEDULE FOR 3 WIRE #4
POLE METER LOOP

| 15' Loop | Unit 4 | Unit 4a |
|---|---|---|
| 1 - $1\frac{1}{4}$" Bushing @ $ .19 | $ .19 | : |
| 1 - Ground Rod Clamp @ $ .19 | .19 | $ .19 |
| 76' - Conductor @ $ .045 | 3.42 | 3.42 |
| 15' - Conduit $1\frac{1}{4}$" @ $ .135 | 2.02 | 2.02 |
| 1 - Condulet, type "LB" @ $ .81 | .81 | |
| 3 - Solderless Connectors @ $ .09 | .27 | .27 |
| 1 - Ground Rod - $\frac{1}{2}$" x 8' @ $1.00 | 1.00 | 1.00 |
| 30' - Bare #6 Ground wire @ $ .02 | .60 | .60 |
| 1 - Lock nut @ $ .02 | .02 | |
| 1 - $1\frac{1}{4}$" Close nipple @ $ .06 | .06 | |
| 1 - 5 wire, $1\frac{1}{4}$" service head @ $ .46 | .46 | .46 |
| 4 - Straps, with screws | .04 | .04 |
| Ground wire staples | .02 | .02 |
| Total Materials | $ 9.10 | $ 8.02 |
| Labor | 2.00 | 2.00 |
| | $11.10 | $10.02 |
| P and O 25% | 2.78 | 2.51 |
| | $13.88 | $12.53 |
| Inspection Fee | .50 | .50 |
| Total | $14.38 | $13.03 |

Add $.45/ft. for each additional foot.

## SUGGESTED MINIMUM UNIT PRICE SCHEDULE FOR 3 WIRE 4A
## NON METAL LINE

| 10' LINE | Unit $ | Unit $ |
|---|---|---|
| 1 - 14" Shelving @ $ .10 | $ .10 | |
| 1 - Ground Rod Clamp @ .15 | .10 | .25 |
| 20' - Conductor @ $ .045 | .9[illegible] | [illegible] |
| 10' - Conduit 1½" @ $ .15 | [illegible] | [illegible] |
| 1 - Conduit, Long 1½" @ $ .1[illegible] | .60 | |
| 2 - Insulators Connectors @ $ .05 | .15 | .30 |
| 1 - Ground Rod - ½" x 8' @ $1.00 | 1.00 | 1.00 |
| 10' - Wire @ Ground Wire @ $ .05 | .5[illegible] | .5[illegible] |
| 1 - Line Box @ $ .[illegible] | .05 | |
| 1 - 1½" Flush Plate @ $ .1[illegible] | .1[illegible] | |
| 1 - 3 Wire, 1½" Service Head @ $ .5[illegible] | .5[illegible] | [illegible] |
| 1 - Screws, with screws | .05 | .05 |
| Ground Wire Clamps | .05 | |
| Total Materials | $ 2.10 | $ 2.[illegible] |
| Labor | 2.00 | 2.00 |
| | $11.10 | $10.00 |
| 2 and 3 [illegible] | [illegible] | [illegible] |
| | $14.[illegible] | $12.[illegible] |
| Installation Fee | .50 | [illegible] |
| Total | $14.50 | $14.[illegible] |

Add $.[illegible] for each additional foot.

SUGGESTED MAXIMUM UNIT PRICE SCHEDULE FOR 3 WIRE #6
POLE METER LOOP

| 15' Loop | Unit 3 | Unit 3a |
|---|---|---|
| 1 - 1¼" Bushing @ $ .19 | $ .19 | : |
| 1 - Ground Rod Clamp @ $ .19 | .19 | $ .19 |
| 76' - Conductor @ $ .03 | 2.28 | 2.28 |
| 15' - Conduit @ $ .135 | 2.02 | 2.02 |
| 1 - Condulet, type "LB" @ $ .81 | .81 | .81 |
| 3 - Solderless Connectors @ $ .09 | .27 | .27 |
| 1 - Ground Rod ½" x 8' @ $1.00 | 1.00 | 1.00 |
| 30' - Bare #6 Ground wire @ $ .02 | .60 | .60 |
| 1 - Lock nut @ $ .02 | .02 | |
| 1 - 1¼" Close Nipple @ $ .06 | .06 | |
| 1 - 5 wire, 1¼" service head @ $ .46 | .46 | .46 |
| 4 - Straps, with screws | .04 | .04 |
| Ground wire staples | .02 | .02 |
| Total Materials | $ 7.96 | $ 6.88 |
| Labor | 2.00 | 2.00 |
| | $ 9.96 | $ 8.88 |
| P and O 25% | 2.49 | 2.22 |
| | $12.45 | $11.10 |
| Inspection Fee | .50 | .50 |
| Total | $12.95 | $11.60 |

Add $ .35/ft. for each additional foot.

[illegible]

| Item | Cost | Unit |
|---|---|---|
| 1 - [illegible] Bushing @ $ .15 | [illegible] | |
| 1 - Round Box Clips @ $ .10 | .10 | [illegible] |
| [illegible] - Conductor @ $ .[illegible] | [illegible] | [illegible] |
| 10' - Conduit @ $ .15 | [illegible] | [illegible] |
| 1 - Conduit, [illegible] "LB" @ $ .81 | [illegible] | [illegible] |
| [illegible] - Bulkhead Connector @ $ .[illegible] | .17 | .07 |
| 1 - Round Box 4" x [illegible] @ $1.00 | 1.00 | 1.00 |
| 100' - Bare [illegible] Ground wire @ $ .02 | [illegible] | [illegible] |
| 1 - Lock nut @ $ .02 | .02 | |
| 1 - [illegible] Clamp Nipple @ $ .06 | .06 | |
| 1 - 5 wire, 1½" service head @ $ .46 | .46 | .46 |
| 4 - Staples, with screws | .04 | .04 |
| Ground wire staples | .02 | .02 |
| Total Materials | $ 7.96 | $ 6.68 |
| Labor | 3.00 | 2.00 |
| | $ 6.96 | $ 8.68 |
| P and O 25% | 2.49 | 2.22 |
| | $12.45 | $11.10 |
| Inspection Fee | .50 | .50 |
| Total | $12.95 | $11.60 |

[illegible] $ .35/ft. for each additional foot.

INSTRUCTIONS FOR INSTALLATION OF OUTSIDE METERS
AND INSIDE CIRCUIT BREAKER ASSEMBLIES

On installations using outside meters and inside circuit breakers the following instructions should be noted.

Proposal to Furnish and Install Main Service Entrances.

Refer to Page 2, Residence Units under Assembly Units should be designated as Unit #1A and #2A. This change also applies to the additional cable in excess of 8 feet. The proper form would be as follows:

RESIDENCE UNITS

| Assembly | | | Unit Price |
|---|---|---|---|
| No. of Units | Unit | Size | |
| _____ | #1A | 8-2 | _____each |
| _____ | #2A | 6-3 | _____each |

For each foot of entrance cable in excess of 8' required on any service the unit prices shall be increased as follows:

No. 1A_____: No. 2A_____.

All circuit breaker units must be the type approved by the Technical Standards Division, R.E.A. The cooperative is to order all breaker assemblies through Group Purchase Plan as provided by the Cooperative Operations Division.

SUGGESTED MAXIMUM UNIT PRICE
SCHEDULE

MAIN SERVICE ENTRANCES
FOR USE WITH OUTSIDE TYPE METERS AND
INSIDE CIRCUIT BREAKER UNITS
2 Wire #8
Unit No. 1A

| | |
|---|---|
| 8' Cable @ 6¢ | $ .48 |
| Service Head | .25 |
| Cable Straps | .10 |
| 2 Connectors, Watertight @ 20¢ each | .40 |
| 1 Connector, Non-watertight | .15 |
| 1 Sill Plate | .18 |
| 8' Ground Wire - Bare #6 @ 2¢ per foot | .16 |
| 1 Ground Rod, Copperweld ½" x 8' | 1.00 |
| 1 Ground Clamp | .20 |
| 1 Ground Bushing | .20 |
| Ground Wire Staples | .05 |
| Labor | 1.50 |
| | $4.67 |
| P & O 25% | 1.17 |
| | $5.84 |
| Inspection Fee | .50 |
| Total | $6.34 |

Maximum price permitted $7.00

For each foot of cable required over 8' add 12¢ per foot.

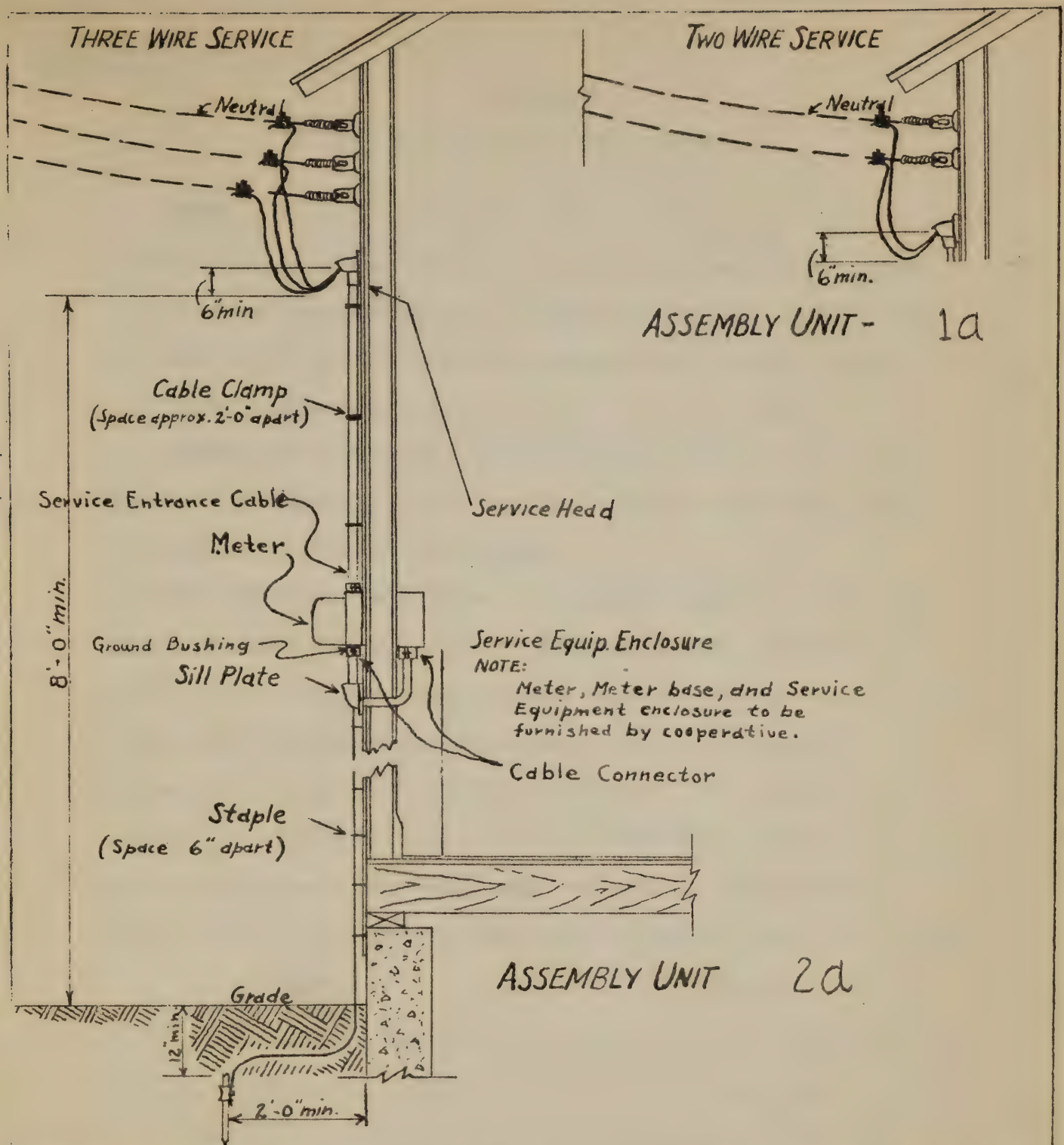
SUGGESTED MAXIMUM UNIT PRICE
SCHEDULE

MAIN SERVICE ENTRANCES
FOR USE WITH OUTSIDE TYPE METERS AND
INSIDE CIRCUIT BREAKER UNITS
3 Wire #6
Unit No. 2A

| | | |
|---|---|---|
| 8' Cable @ 12¢ per foot | | $ .96 |
| Service Head | | .38 |
| Cable Straps | | .15 |
| 2 Connectors, Watertight @ 25¢ each | | .50 |
| 1 Connector, Non-watertight | | .20 |
| 1 Sill Plate | | .18 |
| 8' Ground Wire, Bare #6 @ 2¢ per foot | | .16 |
| 1 Ground Rod, Copperweld ½" x 8' | | 1.00 |
| 1 Ground Clamp | | .20 |
| 1 Ground Bushing | | .20 |
| Ground Wire Staples | | .05 |
| Labor | | 2.00 |
| | | $5.98 |
| P & O | 25% | 1.50 |
| | | $7.48 |
| Inspection Fee | | .50 |
| | Total | $7.98 |

Maximum price permitted $8.50

For each foot of cable required over 8' add 20¢ per foot.

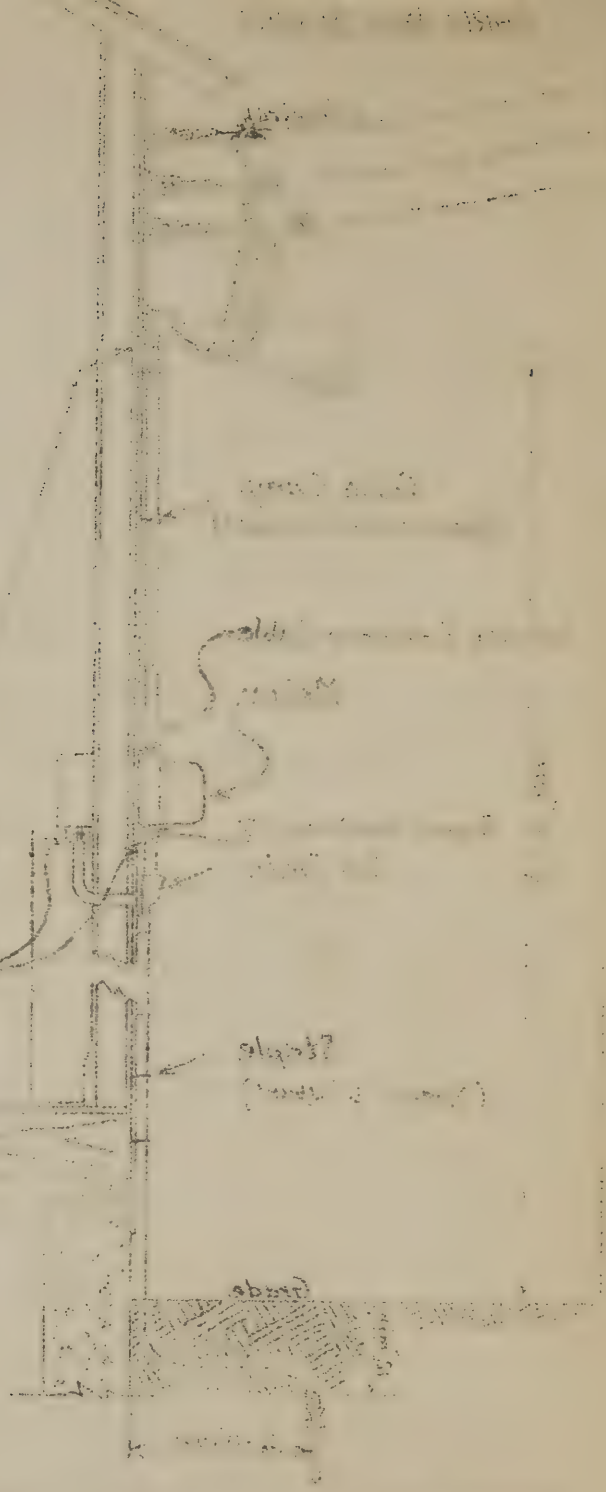



| MATERIAL | NUMBER REQD. 1 | NUMBER REQD. 2 | MATERIAL | NUMBER REQD. 1 | NUMBER REQD. 2 |
|---|---|---|---|---|---|
| Clamp, Cable with screws | as req'd. | as req'd. | Ground Wire with staples | as req'd. | as req'd. |
| Clamp, ground rod | 1 | 1 | Service head | 1 | 1 |
| Connector, Service Cable | 1 | 1 | Sill plate, with sealing compound | 1 | 1 |
| Connector, watertight | 2 | 2 | Copperweld Ground Rod - $\frac{1}{2}$" x 8'-0" | 1 | 1 |
| Cable, Service Entrance | as req'd. | as req'd | Ground Bushing | 1 | 1 |

SERVICE ENTRANCE INSTALLATION (RESIDENCE)

Scale: N.T.S.

DATE:



Form LE-243
(10/24/40)

AGREEMENT

Date _____

Re: Ownership of Service Entrance

WHEREAS, The _____ (hereinafter called the "Cooperative") owns and operates or intends to own and operate a rural electric transmission and distribution system (hereinafter called the "System"), designated by the Rural Electrification Administration _____; and

WHEREAS, The undersigned (each of whom is hereinafter called the "Member"), are Members of the Cooperative and have agreed to purchase electric energy from the Cooperative;

NOW, THEREFORE, Each Member, in order to induce the Cooperative to install the main service entrance (hereinafter called the "Entrance"), to the premises of such Member, agrees that in the event the Cooperative shall install such Entrance the Entrance shall be deemed part of the System and not part of such Member's premises. In such event the Cooperative shall have the right of access to the Entrance at all times and should such Member default in respect of any of its obligations to the Cooperative, the Cooperative shall have the right to remove the Entrance.

| MEMBER | ADDRESS |
| --- | --- |
| | |
| | |
| | |
| | |
| | |
| | |

[illegible]

[illegible] Transmission Extension

[illegible]

[illegible] the "Cooperative") own and operate an integrated [illegible] rural electric transmission and distribution system [illegible] called the "System"), designated by the Rural [illegible] Administration [illegible]

WHEREAS, the undersigned [illegible] who [illegible] called the "Member"), are Members of the Cooperative and have [illegible] energy from the Cooperative;

WHEREFORE, Each Member in order to induce the [illegible] the main service extension hereinafter called the "Extension"), [illegible] premises of such Member, agrees that in the event the Cooperative [illegible] such Extension the Extension shall be deemed [illegible] the System and that part of such Member's [illegible] In such event the [illegible] shall have the right of access to the Extension at all times and [illegible] Member defaults in remedying any of the obligations to the [illegible] the Cooperative shall have the right to remove the Extension.

MEMBER: [illegible]

# C E R T I F I C A T E
## IN RESPECT OF EXECUTION OF AGREEMENT
## RE: OWNERSHIP OF SERVICE ENTRANCE

I, _____*, _____**, of the _____***, (hereinafter called the "Cooperative") hereby certify that the members whose names and addresses are listed below have executed, on the respective dates hereinafter set forth, an agreement in respect of the Ownership of the main service entrance, on a form prescribed for such use by the Rural Electrification Administration, a copy of which form is attached hereto, and that in each case such agreement was executed by such member and delivered to the Cooperative prior to the installation of the main service entrance to such members's premises.

| Name of Member | Address of Member | Date of Execution of Agreement |
|---|---|---|
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_____
Signature of **

_____
Date of Execution of Certificate

NOTE:
* Here insert name of one signing the Certificate
** Here insert "Superintendent" or "Manager"
*** Here insert name of Cooperative

# C E R T I F I C A T E

## IN MATTER OF EXECUTION OF AGREEMENT

## BY: OWNERSHIP OF MOVING EQUIPMENT

I, _____*, _____ of the _____**, (hereinafter called the "Operative") hereby certify that the members whose names and addresses are listed below have executed, on the respective dates hereinafter set forth, an agreement in respect to ownership of the main service entrance, on a form prescribed for such use by the Rural Electrification Administration, a copy of which form is attached hereto, and that in each case such agreement was executed by each member and delivered to the Operative prior to the installation of the main service entrance to each member's premises.

| Name of Member | Address of Member | Date of Execution of Agreement |
|---|---|---|
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_____
Signature of **

_____
Date of Execution of Certificate

NOTE:
* Here insert name of one member the Certificate
** Here insert "Operative" or "Operator"
*** Here insert name of Operative

MATERIAL AND INSPECTION CERTIFICATE OF APPROVAL

Member No. ..... Name .....

Address ..... Electrician .....

| Quantity | UNIT NUMBER_____ Consisting of | SIZE | CIRCUIT | VALUE | O.K. | REJ. |
|---|---|---|---|---|---|---|
| | Switch Equipment | | | | | |
| | Ground Rod | | | | | |
| | Ground Rod Clamp | | | | | |
| | Connectors | | | | | |
| | Service Head | | | | | |
| | Cable or conduit straps | | | | | |
| | Conductor | | | | | |
| | Bare copper grnd. | | | | | |
| | Conduit | | | | | |
| | Bushing | | | | | |
| | Condulet | | | | | |
| | Lock nut | | | | | |
| | Nipple | | | | | |
| | Sill Plate | | | | | |
| | Screws, staples | | | | | |
| | Labor | | | | | |
| | Profit and Overhead | | | | | |
| | Inspection | | | | | |
| | | | Total | | | |

Inspected this .... day of ....., 194 and it was found that the above material was (or was not) properly installed on the above named members premises.

_____
Inspector

Payment received _____
Date

_____, Contractor

| | | | | | |
|---|---|---|---|---|---|
| | | | | | |

| DEPARTMENT OF AGRICULTURE RURAL ELECTRIFICATION ADMINISTRATION | **ANALYSIS OF PROPOSALS** | PROJECT: _____ DATE: _____ |
|---|---|---|

NOTE: In Columns 3, 4 and 5 Cross out the Unit not being used.

| CONTRACTOR | UNIT NO. 1 | | UNIT NO. 2 | | UNIT NO. 3 or 3d | | UNIT NO. 4 or 4d | | UNIT NO. 5 or 5d | | TOTAL PRICE | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | NUMBER UNITS | UNIT PRICE | NUMBER UNITS | UNIT PRICE | NUMBER UNITS | UNIT PRICE | NUMBER UNITS | UNIT PRICE | NUMBER UNITS | UNIT PRICE | | |
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